

What is claimed is:

1. A supply system of a compound for chemical vapor deposition, comprising:

an order-processing device for receiving a request for
5 shipment of a compound for chemical vapor deposition from a customer, and for performing shipment processing;

an inventory database for storing an amount of shippable compound;

10 analyzing means having analysis information output means capable of analyzing a spent compound that is returned from the customer, and outputting, as analysis information, at least a weight of an unreacted compound in the spent compound;

regenerating means having regeneration information
15 output means for separating the unreacted compound from the spent compound and refining the separated unreacted compound, and for outputting, as regeneration information, at least an amount of regenerated compound;

a stock-material information database for storing
20 shipment information of the spent compound at the time of initial shipment; and

a charging-processing device for performing price charging-processing for the customer,

wherein when a shipment request comes from the customer,
25 the order-processing device judges whether shipment is possible by comparing the amount of shippable compound that is stored in the inventory data base with an order amount of

the customer, and performs shipment processing if the shipment is possible, and

after a spent compound is returned from the customer,
the charging-processing device calculates an amount of
5 compound consumed by the customer based on analysis
information that is output from the analysis information
output means and performs charging-processing for the
customer, and the inventory data base extracts an amount of
regenerated compound from regeneration information that is
10 output from the regeneration information output means and
stores the amount of regenerated compound as an amount of
shippable compound.

2. The supply system of a compound for chemical vapor
15 deposition according to claim 1,

wherein the analysis information includes a density and
composition as well as the weight of the unreacted compound
in the spent compound.

20 3. The supply system of a compound for chemical vapor
deposition according to claim 1 or 2,

wherein the regeneration information includes purity
and composition of the regenerated compound.

25 4. The supply system of a compound for chemical vapor
deposition according to any one of claims 1 to 3,

wherein the shipment information includes purity and composition of a compound at the time of shipment.

5. The supply system of a compound for chemical vapor deposition according to any one of claims 1 to 4,

wherein the stock-material information database also stores the analysis information and the regeneration information.

10 6. The supply system of a compound for chemical vapor deposition according to any one of claims 1 to 5,

wherein the order-processing device, the inventory data base, the analyzing means, the regenerating means, the charging-processing device, and the stock-material information database are connected to each other by a network.

7. A supply system of a compound for chemical vapor deposition, comprising:

an order-processing device for receiving a regeneration request from a customer;

regenerating means having regeneration information output means for separating an unreacted compound from a spent compound returned from the customer and refining the separated unreacted compound, and for outputting, as regeneration information, at least a weight of a regenerated compound;

a regeneration cost database in which a regeneration cost per unit weight corresponding to a kind of the spent compound returned from the customer is recorded; and

- 5 a charging-processing device for performing
charging-processing for a regeneration cost for the customer,
wherein the charging-processing device calculates a
regeneration cost based on the regeneration information that
is output from the regenerating means and the regeneration
cost database, and performs charging-processing for the
10 customer.

8. The supply system of a compound for chemical vapor deposition according to claim 7,

- 15 wherein the regeneration information further includes
purity and composition of the regenerated compound.

9. The supply system of a compound for chemical vapor deposition according to claim 7 or 8,

- 20 wherein the order-processing device, the regenerating
means, the charging-processing device, and the regeneration
cost database are connected to each other by a network.

- 25 10. The supply system of a compound for chemical vapor deposition according to any one of claims 7 to 9, further comprising analyzing means having analysis information output means capable of analyzing the spent compound that is returned from the customer, and outputting, as analysis

information, at least a weight of an unreacted compound in the spent compound.

11. The supply system of a compound for chemical vapor

5 deposition according to claims 7 to 9,

wherein the analysis information includes at least one of the weight, a density, and composition of the unreacted compound in the spent compound.

10 12. The supply system of a compound for chemical vapor

deposition according to claims 10 to 11,

wherein the order-processing device, the regenerating means, the charging-processing device, the regeneration cost database, and the analyzing means are connected to each other

15 by a network.

13. A thin-film manufacturing system comprising:

a compound supply section comprising a supply system of a compound for chemical vapor deposition according to any one 20 of claims 1 to 12; and a thin-film manufacturing section for manufacturing a thin film using a compound that is supplied from the supply system, comprising:

a thin-film manufacturing apparatus;

recovering means for recovering a spent compound that 25 is discharged from the thin-film manufacturing apparatus;

a storage device for storing an amount of spent compound recovered by the recovering means; and

ordering-processing device for performing processing of ordering a new compound or processing of issuing a request for regeneration of the recovered spent compound,

wherein the order-processing device of the compound
5 supply section and the ordering-processing device of the thin-film manufacturing section are connected to each other by a network.

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